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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/650,393	08/27/2003	Kenichi Mitsumori	9281-4664	6750
75	90 06/14/2005		EXAM	INER
Gustavo Siller, Jr. BRINKS HOFER GILSON & LIONE			STINSON, FRANKIE L	
P.O. BOX 10395			ART UNIT	PAPER NUMBER
CHICAGO, IL 60610			1746	
		DATE MAIL ED: 06/14/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/650,393	MITSUMORI ET AL.				
Office Action Summary	Examiner	Art Unit				
	FRANKIE L. STINSON	1746				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 27 Ap	oril 2005.					
•	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>16-19 and 27-29</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) <u>16-19 and 27-29</u> is/are allowed.						
6)⊠ Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
•						
Attachment(s)	-					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal F	Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:					
U.S. Patent and Trademark Office PTOL -326 (Rev. 1-04) Office Adv.	tion Summary	Part of Paper No /Mail Date 2				

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 27, 16, 17, 19, 28 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lemelson (U. S. Pat. No. 3,154,890), Schulze (U. S. Pat. No. 2,873,391) or Goldsmith (U. S. Pat. No. 4,408,366) in view of either Faidley (U. S. Pat.

No. 2,986,649) or Umezawa (U. S. Pat. No. 4,740,726).

Re claim 27, Lemelson, Schulze (fig. 6) and Goldsmith are each cited disclosing a wet treatment nozzle comprising:

an ultrasonic cleaner comprising a housing, an ultrasonic transducer (16 in Lemelson, 28 in Schulze and 313 in Goldsmith) placed on a bottom surface of the housing,

an introduction passage (18 in Lemelson, 28 in Schulze and 315 in Goldsmith) for introducing a treatment liquid on a side of the ultrasonic cleaner,

an exhaust passage (19 in Lemelson, 32 in Schulze and 321a in Goldsmith) which exhausts the treatment liquid on an other side of the ultrasonic cleaner after a wet treatment of an object to be treated, the exhaust passage exhausting the treatment liquid that wet treated the object,

wherein the ultrasonic cleaner, while vibrating, guides the treatment liquid to wet

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treat the object to be treated, that differs from the claim only in the recitation of the weight on the housing with the weight minimizing propagation of energy from the ultrasonic transducer to a wall of the housing by shifting the characteristic frequency of the wall of the housing. The patents to Faidley and Umezawa are each cited disclosing transducer, where the transducers are provided with a weight, (Faidley, col. 1, lines 53-57 and Umezawa, claim 9). It therefore would have been obvious to one having ordinary skill in the art to modify the ultrasonic cleaner in Lemelson, Schulze or Goldsmith, to include a weight as taught by Faidley or Umezawa for the purpose of increasing the efficiency and stability of the transducer and the efficacy of the sonic was transmission. Re claims 16, 17 and 19, to position the weight at various location including wall thickness, is deemed to be an obvious matter of design in that the weight as taught by either Faidley or Umezawa, is considered to be the functional equivalence of each other (see MPEP 12144.06). Re claim 28, Schulze discloses the shape. Re claim 29, the same is deemed to be inherent in Lemelson, Goldsmith and Schulze as proposedly modified.

3. Claim18 is rejected under 35 U.S.C. 103(a) as being unpatentable over the applied prior art as applied to claim 27 above, and further in view of Eppes (U. S. Pat. No. 4,764,021).

Claim 18 defines over the applied prior art only in the recitation of the weighted housing.

Eppes is cited disclosing the weighted housing (see col. 2, lines 14-17) providing stabilization as claimed. It therefore would have been obvious to one having ordinary

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skill in the art to modify the arrangement of Lemelson, Schulze or Goldsmith, to be as taught by Eppes, for the purpose of efficiently employing the wave energy.

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to FRANKIE L. STINSON whose telephone number is (572) 272-1308. The examiner can normally be reached on M-F from 5:30 am to 2:00 pm and some Saturdays from approximately 5:30 am to 11:30 am.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr, can be reached on (571) 272-1700. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

fls

FRANKIE L. STINSON
Primary Examiner
GROUP ART UNIT 1746